

Application No. 10/518047

Responsive to the Office Action dated January 5, 2010 and Advisory Action dated July 19, 2010

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A first agent composition for a permanent wave agent or for a hair straightening agent comprising:

- (a) a long-chain acylsulfonate type of anionic surfactant expressed by the following Formula I:



(wherein  $R_1CO-$  is a saturated or unsaturated fatty acid residue (acyl group) with an average carbon number of 10 to 22; X is  $-O-$  or  $-NR-$  (wherein R is a hydrogen atom or an alkyl group with a carbon number of 1 to 3);  $M_1$  is a hydrogen atom, an alkali metal, an alkaline earth metal, ammonium or an organic amine; and n is an integer from 1 to 3);

- (b) a higher alcohol;  
(c) an anionic polymer; and  
(d) a reducing agent,

wherein a combined amount of the component (a) and the component (b) is 0.5 to 10 weight % of the first agent composition,

a molar ratio of the component (b) to the component (a) is 2 to 10, and

~~the first agent composition does not contain a cationic polymer having as a monomer dimethyl diallyl ammonium chloride.~~

2. (Previously Presented) The first agent composition for a permanent wave agent or for a hair straightening agent according to claim 1, wherein the component (c) is contained in the first agent composition in an amount of 0.05 to 3 weight %.

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3. (Previously Presented) The first agent composition for a permanent wave agent or for a hair straightening agent according to claim 1, wherein the component (d) is contained in the first agent composition in an amount of 1 to 19 weight %.

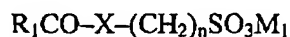
4 – 6. (Cancelled).

7. (New) The first agent composition for a permanent wave agent or for a hair straightening agent according to claim 1, wherein the first agent composition does not contain a polymer of dimethyl diallyl ammonium chloride and a copolymer of dimethyl diallyl ammonium chloride and acrylamide.

8. (New) A method for treating hair for a permanent wave or straightening, comprising:

providing a first agent composition to hair to be treated, wherein the first agent composition comprises:

(a) a long-chain acylsulfonate type of anionic surfactant expressed by the following Formula I:



(wherein  $R_1CO-$  is a saturated or unsaturated fatty acid residue (acyl group) with an average carbon number of 10 to 22; X is  $-O-$  or  $-NR-$  (wherein R is a hydrogen atom or an alkyl group with a carbon number of 1 to 3);  $M_1$  is a hydrogen atom, an alkali metal, an alkaline earth metal, ammonium or an organic amine; and n is an integer from 1 to 3),

(b) a higher alcohol,

(c) an anionic polymer, and

(d) a reducing agent,

wherein a combined amount of the component (a) and the component (b) is 0.5 to 10 weight % of the first agent composition and a molar ratio of the component (b) to the component (a) is 2 to 10,

rinsing the first agent composition out from the hair to be treated,

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providing a second agent composition to the hair to be treated, wherein the second agent composition comprises an oxidant as a main component, and  
rinsing the second agent composition out from the hair to be treated,  
wherein the step of providing the first agent composition is carried out before the step of providing the second agent composition.

9. (New) The method according to claim 8, wherein the component (c) is contained in the first agent composition in an amount of 0.05 to 3 weight %.

10. (New) The method according to claim 8, wherein the component (d) is contained in the first agent composition in an amount of 1 to 19 weight %.